

IN THE SPECIFICATION:

Please replace the paragraph spanning lines 3-16 of page 19 with the following replacement paragraph:

Still referring to Figure 3, the seven LEDs 150 are of various colors. Preferably, the seven LEDs consist of light blue (B+) and dark blue (B-) LEDs 150c within the meridional plane 154c, yellow (Y) and green (G) LEDs 150b within the meridional plane 154b, and red (R), orange(O) and infrared (IR) LEDs 150a within the meridional plane 154a. The light emitting from the LEDs 150 passes through the sample vial 130. Within the sample vial 130, the light is refracted and scattered, if turbidity exists, as described above with respect to Figures 2a, 2b and 2c. It is envisioned that two of the PVDs 152 will receive filtered light. In a preferred embodiment, and as described above, PVD 152a in meridional plane 154c has a red light blocking filter 176 associated therewith (e.g., Written Wratten #47), and PVD 152a has a blue-green blocking filter 178 associated therewith (e.g., Written Wratten #25). The use of optical filters aids in reliably separating the average fluorescence emission intensity from scattered intensities. In the case of sensing fluorescence by pulsed excitation or time-delay gated methods, the physical filters may be omitted.